

receives electric power via the brushes and faces the flat magnet across a second gap in the axial direction.

7. (Thrice Amended) A non-circular flat motor comprising:
  - a rotor having an axial direction;
  - a stator base having a shaft supporting the rotor and that is centrally located on the stator base;
  - a housing having a metal portion and a non-circular shape in a plane perpendicular to the axial direction, and being at least partially a resin; and
  - at least two feeder terminals arranged at a corner of the housing, on a side surface of the housing and, electrically insulated from the metal portion of the housing.
8. (Twice Amended) The motor as claimed in claim 7, wherein the shaft has a fixed shaft core extending from a portion of the housing constituting a stator, the fixed shaft core is resin coated, the rotor is rotatably installed on the resin coated fixed shaft core, and a tip of the shaft is inserted in a concave portion of the housing.
9. (Thrice Amended) The motor as claimed in claim 8, further comprising:
  - a magnet;
  - a magnetic yoke plate, the fixed shaft core integrally protruding from the center of the magnetic yoke plate, the magnet yoke plate constituting part of the housing;
  - a bracket including the resin coated fixed shaft core and incorporating at least part of the magnetic yoke plate;
  - a rotor including a commutator and an armature coil having an end connected to the commutator and rotatably supported by the resin coated fixed shaft core, the rotor facing the magnet and spaced from the magnet by a gap;
  - a pair of brushes having base ends and contacts in sliding contact with the commutator and fixed such that at least two surfaces of the base ends are exposed to the bracket, wherein the magnet is placed at a yoke portion of the bracket after the brushes are installed;
  - a brush recess insulating at least one of the brushes from the magnetic yoke plate; and
  - a case accommodating the rotor and having a concave portion at the bracket and receiving the tip of the resin coated fixed shaft centrally in the case, at least a magnetic path portion of the magnet being a magnetic body.

11. (Twice Amended) The motor as claimed in claim 10, wherein the magnetic yoke plate is partially separated from the case.

12. (Amended) The motor as claimed in claim 11, wherein a portion for reflow soldering is located where the magnetic yoke plate is separated from the case.

13. (Thrice Amended) The motor as claimed in claim 9, wherein the resin of the resin coated fixed shaft core includes a potassium titanate whisker, withstands a thermal deformation temperature of over 200°C (18.5 kgf/cm<sup>2</sup>), and is slippery.

14. (Thrice Amended) A non-circular flat motor comprising:  
a rotor having an axial direction;  
a housing which is non-circular in a plane perpendicular to the axial direction, which rotatably supports the rotor, and which has side surfaces, at least a part of which are flat, and which includes a stator base;  
an armature coil at the stator base;  
a magnet on the rotor facing the armature coil and spaced from the armature coil by a gap;  
a plurality of feeder terminals arranged at the side surfaces, at corners of the housing, and electrically insulated from adjacent portions of the motor;  
a metal plate incorporating, at a center, a shaft support, the metal plate forming a first part of the housing;  
a fixed shaft supported by the shaft support, the rotor being rotatably installed at a tip of the fixed shaft; and  
a plurality of armature coils arranged around the fixed shaft to drive the rotor, wherein a second part of the housing supports the tip of the fixed shaft.

17. (Twice Amended) The motor as claimed in claim 14, wherein the rotor is eccentric to generate vibrations during rotation.